

CLAIMS

1. A chemical analyzer to which a sample is injected and in which a reagent for reacting with said sample is stored, comprising:

a housing part for housing a structure having a reaction region for reacting said sample with said reagent; and

a mechanism for detecting said sample after said reaction,

wherein said structure comprises:

a reagent cartridge having a reagent storing part for storing the reagent;

a connection part to which said reagent cartridge is connected; and

a channel cartridge having a reagent channel through which said reagent flows, a sample channel through which said sample flows, and said reaction region which is in communication with said reagent channel and said sample channel.

2. The chemical analyzer according to claim 1, wherein said structure is rotatably mounted within said housing part, said sample contains nucleic acid, said channel cartridge has a capturing part for capturing the nucleic acid from said sample, and said detection mechanism is disposed at an outside of said structure.

3. The chemical analyzer according to claim 1, wherein a first storing portion of said reagent storing part of said reagent cartridge communicates with a

second storing portion of said reagent storing part of said reagent cartridge via said reagent channel or said sample channel formed in said channel cartridge when said reagent cartridge and said channel cartridge are attached to said housing part.

4. The chemical analyzer according to claim 1, wherein a plurality of said reagent cartridges are provided, and a first reagent cartridge is retained at a lower temperature than a second reagent cartridge before being contained within said housing part.

5. The chemical analyzer according to claim 1, wherein a plurality of said reagent cartridges are provided, and a first reagent cartridge is retained at a lower temperature than a second reagent cartridge before being contained within said housing part, and a volume of said first reagent cartridge is smaller than a volume of said second reagent cartridge.

6. The chemical analyzer according to claim 1, wherein said channel cartridge is provided with a reagent storing part for storing a reagent, and said channel cartridge is retained at a lower temperature than said reagent cartridge before being contained within said housing part.

7. The chemical analyzer according to claim 1, wherein a plurality of said reagent cartridges are provided, and a first reagent cartridge is disposed facing toward a first region of said channel cartridge and a second reagent cartridge is disposed facing

toward a second region of said channel cartridge.

8. The chemical analyzer according to claim 1, wherein a plurality of said reagent cartridges are provided, and said second reagent cartridge is disposed facing toward said channel cartridge and a first reagent cartridge is disposed facing toward said second reagent cartridge.

9. The chemical analyzer according to claim 1, wherein said channel cartridge is provided with an inlet into which said sample is injected, and said inlet is provided so as to be covered with said reagent cartridge at a time of mounting the reagent cartridge when viewing from a building-up direction

10. A structure for a chemical analysis, comprising:

- an introduction part of a sample including a certain chemical substance;

- a reagent storing part for storing a reagent reacting with said sample; and

- a capturing part for capturing said chemical substance from the reagent reacted with said reagent,

- wherein said structure comprises a reagent cartridge having reagent storing parts for storing a plurality of reagents, a connection part to which said reagent cartridge can be connected, and a channel cartridge having reagent channels through which said reagents flow, a sample channel through which said sample flows, and said reaction region which is in

communication with said reagent channel and said sample channel.

11. A channel structure, comprising:

a connection part which can connect to a reagent structure having a reagent storing part for storing a reagent;

a reagent channel through which said reagent supplied via said connection part flows;

a sample channel through which a sample containing a certain chemical substance flows;

a reaction region through which said reagent channel and said sample channel are in communication with each other; and

a capturing part for capturing said chemical substance from said sample which has reacted with said reagent.

12. A channel structure, comprising:

a connection part which is connectable to a reagent structure having a reagent storing part for storing a reagent and to which the reagent within said reagent storing part is supplied;

an inlet for injecting a sample containing a certain chemical substance;

a separation part for separating a separated sample containing a gene which is a testing object from the sample injected from said inlet;

a first reaction part for introducing a first reagent supplied from a first connecting portion of

said connection part and said separated sample to allow them to react with each other;

a gene capturing part for capturing said gene from said separated sample after said reaction;

a washing reagent channel for introducing a washing reagent supplied from a second connecting portion of said connection part into said gene capturing part;

an eluent channel for introducing an eluent supplied from a third connecting portion of said connection part into said gene capturing part; and

a retaining part for retaining said eluted gene.

13. A reagent structure, comprising:

a connection part which is connectable to a channel structure having a reagent channel through which a reagent flows, a sample channel through which a sample containing a certain chemical substance flows, and said reaction region through which said reagent channel and said sample channel are in connection with each other;

a reagent storing part for storing said reagent; and

a channel for introducing said stored reagent into said channel structure.